

 **Marshall Presents uno**

**The #1 Single Spindle Chucker**

**#1**  
RIGIDITY  
SPEED  
PRODUCTIVITY  
TOOL LIFE



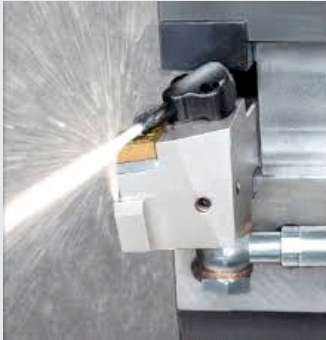
**uno :**

**#1 i.e. first or best  
in any field**

- 60 Degree Slant Bed
- Monoblock Casting with 'Harcrete'
- 5500 RPM & 30m/min. Rapids
- Upto 8 tools per spindle with
- **SmartFlow** (Patented) Coolant System

## THE FEATURES

#1



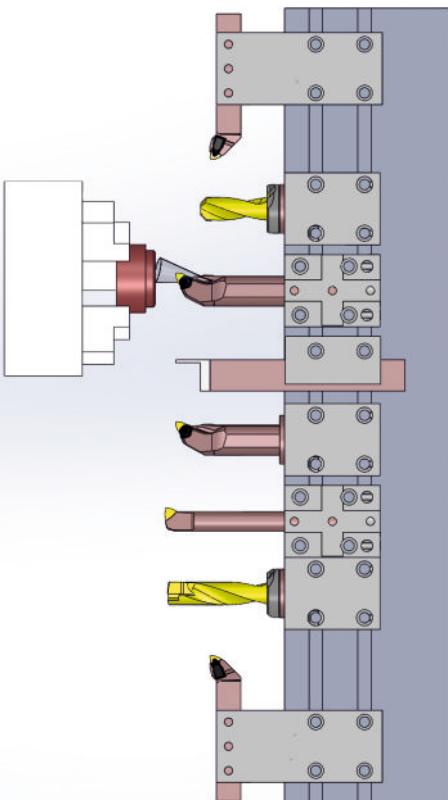
### SmartFlow

(Patent Applied)

**SmartFlow** ensures that the Block where tool is performing machining operation gets 100% of pump flow & pressure.

#2

### UPTO 8 TOOLS PER SPINDLE



## uno

has the highest specifications, features & performance among CNC chucks.  
**CAPACITY**

Swing Over Carriage Cover (mm)	360
Maximum Turning Dia. (mm)	250
Maximum Turning Length (mm)	160
Maximum Boring Length (mm)	150

### MAIN SPINDLE

Spindle Nose (Standard)	A2-5
Front Bearing Bore (mm)	85
Maximum Bar Capacity (Std.) (mm)	38

### SPINDLE DRIVE

Spindle Motor rated power (KW)	7.5/11
Inf. Variable speed range (Std.) (rpm)	100-4500
Inf. Variable speed range (Opt.) (rpm)	100-5500

### LINEAR SLIDE

X-axis Stroke (mm)	500
Maximum No. of tools /side	8
Tool Shank Size	25x25
Maximum Tool Bore Size (mm)	40

### RAPID TRAVERSE

STANDARD	
X-axis (m/min.)	30
Z-axis (m/min.)	30

### POSITIONING REPEATABILITY

X-axis	± 1.5 microns
Z-axis	± 2.0 microns

CNC Controls: SIEMENS 808D / 828D / FANUC OiTF

Weight (approx.) (Kg) 4000

Note : Product improvement is a continuous process at "Marshall".

Design & Specifications are therefore, subject to change

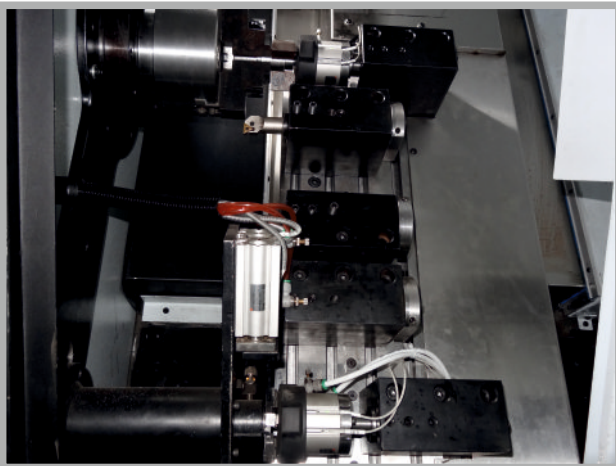
# uno + SmartLoad 10

Super Optimized m/c & Affordable Automation

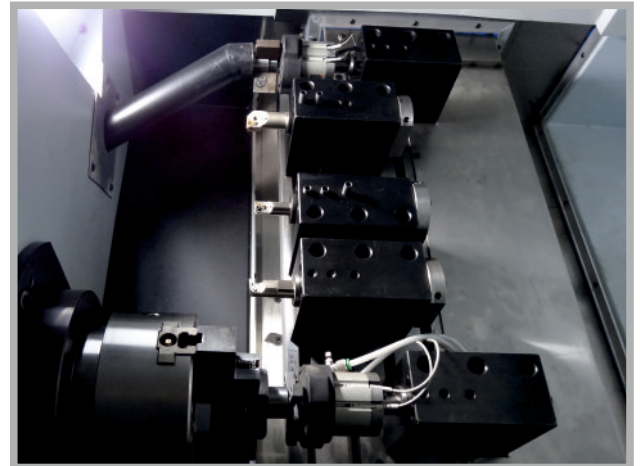


Patented *SmartLoad* based on “TWIN GRIP TWIN RELEASE”

## TWIN GRIP



## TWIN RELEASE



*uno* with *SmartLoad 10* has following **FIVE** Advantages

**RELIABLE** MIN. NO. OF MOVING PARTS.

**COMPACT** SMALLEST FOOTPRINT.

**SAFE** MECHANISM INSIDE MACHINE. NO RISK TO HUMANS.

**FAST** FASTER LOAD/UNLOAD TIME.

**ECONOMICAL** APPROX. 50% THE COST OF GANTRY OR ROBOT BASED AUTOMATION.

## OPTIONS

Infeed

Outfeed



Vibratory Bowl Feeder

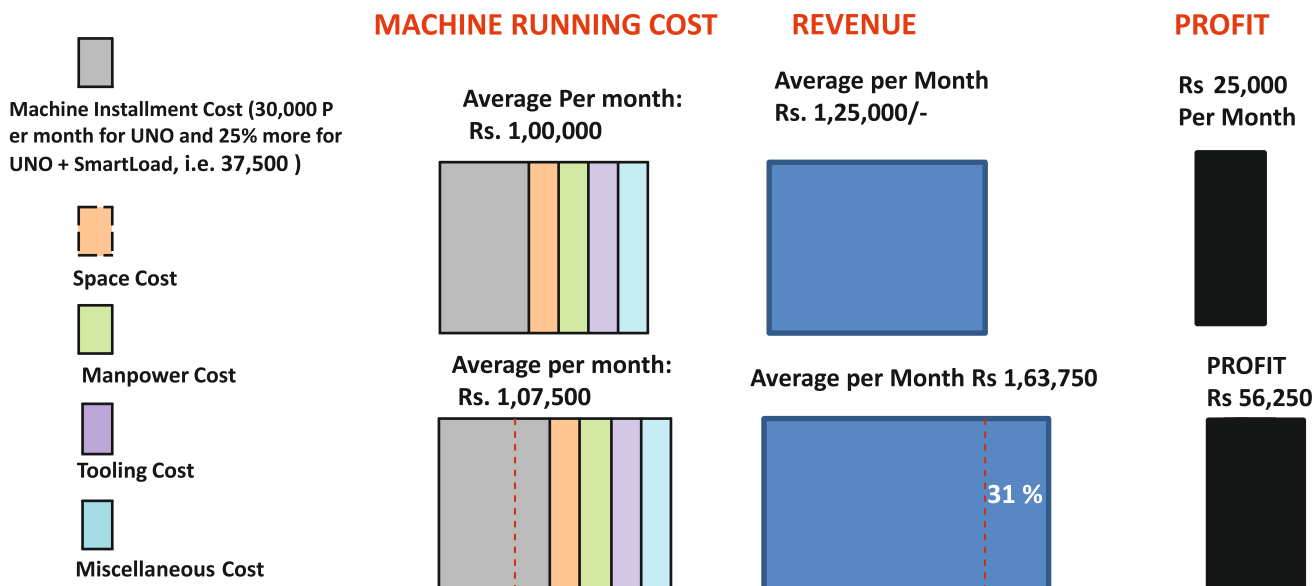


Belt Conveyor

# Payback period of *SmartLoad 10* less than **7** months.

## #1 Extra Profit from **31%** extra Runtime

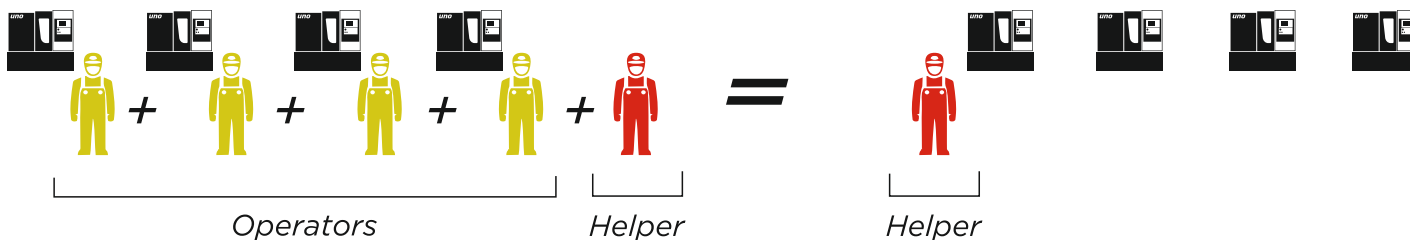
31 % extra productivity = 31% extra jobs in same time = 31% extra REVENUE!



EXTRA Productivity Profit per *uno* + *SmartLoad 10* is Rs. 56,250 - 25,000 = **31,250/-**

## #2 Saving in Operator Cost.

Each single spindle machine requires one operator/shift but *uno* + *SmartLoad 10* requires **1 Helper per 4 machines.**



Therefore Manpower saving 3 persons in 3 shifts by replacing 1 No. *uno* with 1 No. *uno* + *SmartLoad-10* Average CTC per person is Rs.12,500/- Per Month Saving Per month = **Rs. 37,500**

Total Saving 31,250 + 37,500 = Rs. 68,750  
Cost of *SmartLoad 10* (approx Rs. 4.5 lakh)

$$\text{Payback} = \frac{4,50,000 \text{ (Cost)}}{68,750 \text{ (Saving/month)}} = 7 \text{ Months.}$$

**BONUS: After 7 Months, Extra Profits & Peace of mind for entire life of machine.**